

Claim Amendments

1 (currently amended): A composition comprising an isolated DNA molecule comprising ~~one or more copies of TRT (SEQ ID NO:3), or a functional variant thereof that is altered from SEQ ID NO:3 only~~ SEQ ID NO:3 that is altered in the central crossover region, with the proviso that the DNA molecule does not comprise the entire sequence of TRT" (SEQ ID NO:4).

2 (currently amended): The composition of claim 1 wherein the DNA molecule further comprises ~~one or more copies of TRT (SEQ ID NO:3), or the functional variant thereof, and~~ a heterologous nucleotide sequence.

3 (currently amended): The composition of claim 1 wherein the DNA molecule ~~comprises one or more copies of TRT (SEQ ID NO:3), or the functional variant thereof, with the proviso that the DNA molecule does not comprise more than 200 contiguous~~ nucleotides of the sequence TRT" (SEQ ID NO:4).

4 (previously presented): The composition of claim 3 wherein the DNA molecule does not comprise more than 100 contiguous nucleotides of TRT" (SEQ ID NO:4).

5 (previously presented): The composition of claim 3 wherein the DNA molecule does not comprise more than 32 contiguous nucleotides of TRT" (SEQ ID NO:4).

6-10 (canceled)

11 (previously presented): The composition of any one of claims 1 to 5 wherein the DNA molecule further comprises a selectable marker.

12 (previously presented): The composition of any one of claims 1 to 5 wherein the DNA molecule is a vector.

13 (currently amended): A cell transformed with a DNA molecule, said DNA molecule comprising ~~one or more copies of TRT (SEQ ID NO:3) or a functional variant thereof that is altered from SEQ ID NO:3 only~~ SEQ ID NO:3 that is altered in the central crossover region, with the proviso that the DNA molecule does not comprise the entire sequence of TRT" (SEQ ID NO:4).

14 (canceled)

15 (previously presented): The cell of claim 13 wherein the DNA molecule is integrated into the chromosome of the cell.

16 (currently amended): A eukaryotic cell transformed with a DNA molecule integrated into its chromosome, said DNA molecule comprising ~~one or more copies of TRT (SEQ ID NO:3) or a functional variant thereof that is altered from SEQ ID NO:3 only~~ SEQ ID NO:3 that is altered in the central crossover region, ~~or TRT' (SEQ ID NO:2) or a functional variant thereof that is altered from SEQ ID NO:2 only in the central crossover region.~~

17 (previously presented): The cell of claim 16, which is a mouse embryonic stem cell.

18 (currently amended): The cell of claim 16 wherein the DNA molecule comprises two copies of TRT (SEQ ID NO:3), ~~or the functional variant thereof, or~~ SEQ ID NO:3 that is altered in the central crossover region, separated by a heterologous nucleotide sequence.

19 (currently amended): The cell of claim ~~16~~76 wherein the DNA molecule comprises two copies of TRT' (SEQ ID NO:2), ~~or the functional variant thereof, or SEQ ID NO:2 that is altered in the central crossover region,~~ separated by a heterologous nucleotide sequence.

20 (currently amended): A kit comprising in separate containers:
a) an isolated DNA molecule comprising one or more copies of TRT (SEQ ID NO:3) ~~or a functional variant thereof that is altered from SEQ ID NO:3 only~~ SEQ ID NO:3 that is altered in the central crossover region; and
b) an isolated TnpI protein, a TnpI expression vector or a cell capable of expressing TnpI.

21-52 (canceled)

53 (currently amended): The composition of claim 1, wherein the isolated DNA molecule comprises ~~one or more copies of~~ TRT (SEQ ID NO:3).

54 (previously presented): The composition of claim 1, wherein the isolated DNA molecule comprises a sequence selected from the group consisting of SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, and SEQ ID NO:10.

55 (previously presented): The composition of claim 1, wherein the isolated DNA molecule comprises TRT' (SEQ ID NO:2).

56 (previously presented): The composition of claim 1, wherein the isolated DNA molecule comprises at least two copies of TRT (SEQ ID NO:3).

57 (previously presented): The composition of claim 1, wherein the isolated DNA molecule comprises at least two copies of TRT' (SEQ ID NO:2).

58 (currently amended): The cell of claim 13, wherein the DNA molecule comprises ~~one or more copies of~~ TRT (SEQ ID NO:3).

59 (previously presented): The cell of claim 13, wherein the DNA molecule comprises a sequence selected from the group consisting of SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, and SEQ ID NO:10.

60 (previously presented): The cell of claim 13, wherein the DNA molecule comprises TRT' (SEQ ID NO:2).

61 (previously presented): The cell of claim 13, wherein the DNA molecule comprises at least two copies of TRT (SEQ ID NO:3).

62 (previously presented): The cell of claim 13, wherein the DNA molecule comprises at least two copies of TRT' (SEQ ID NO:2).

63 (currently amended): The kit of claim 20, wherein the isolated DNA molecule comprises ~~one or more copies of~~ TRT (SEQ ID NO:3).

64 (previously presented): The kit of claim 20, wherein the isolated DNA molecule comprises a sequence selected from the group consisting of SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, and SEQ ID NO:10.

65 (previously presented): The kit of claim 20, wherein the isolated DNA molecule comprises TRT' (SEQ ID NO:2).

66 (previously presented): The kit of claim 20, wherein the isolated DNA molecule comprises at least two copies of TRT (SEQ ID NO:3).

67 (previously presented): The kit of claim 20, wherein the isolated DNA molecule comprises at least two copies of TRT' (SEQ ID NO:2).

68 (currently amended): The composition of claim 1, wherein the isolated DNA molecule comprises ~~a functional variant of TRT (SEQ ID NO:3)~~SEQ ID NO:3 that is altered in the central crossover region.

69 (currently amended): The composition of claim 68, wherein the central crossover region ~~of the functional variant~~ is an inverted repeat.

70 (currently amended): The cell of claim 13, wherein the DNA molecule comprises ~~a functional variant of TRT (SEQ ID NO:3)~~SEQ ID NO:3 that is altered in the central crossover region.

71 (currently amended): The cell of claim 70, wherein the central crossover region ~~of the functional variant~~ is an inverted repeat.

72 (currently amended): The eukaryotic cell of claim 16, wherein the DNA molecule comprises ~~a functional variant of TRT (SEQ ID NO:3) or TRT' (SEQ ID NO:2)~~SEQ ID NO:3 that is altered in the central crossover region.

73 (currently amended): The eukaryotic cell of claim 72, wherein the central crossover region ~~of the functional variant~~ is an inverted repeat.

74 (currently amended): The kit of claim 20, wherein the DNA molecule comprises ~~a functional variant of TRT (SEQ ID NO:3)~~SEQ ID NO:3 that is altered in the central crossover region.

75 (currently amended): The kit of claim 74, wherein the central crossover region ~~of the functional variant~~ is an inverted repeat.

76 (new): The eukaryotic cell of claim 16, wherein the DNA molecule comprises TRT' (SEQ ID NO:2) or SEQ ID NO:2 that is altered in the central crossover region.

77 (new): The eukaryotic cell of claim 16, wherein the DNA molecule comprises SEQ ID NO:2 that is altered in the central crossover region.

78 (new): The eukaryotic cell of claim 72, wherein the central crossover region is an inverted repeat.